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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/543,169	07/22/2005	Jouko Muona	47121-5015-00 (221889)	5477
55694 DRINKER BII	7590 04/28/201 DDLE & REATH (DC)	EXAMINER		
1500 K STREET, N.W. SUITE 1100 WASHINGTON, DC 20005-1209			WEEKS, GLORIA R	
			ART UNIT	PAPER NUMBER
77.0711.0701,20.2000 120			3721	
			NOTIFICATION DATE	DELIVERY MODE
			04/28/2010	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

DBRIPDocket@dbr.com penelope.mongelluzzo@dbr.com

# Office Action Summary

Application No.	Applicant(s)	
10/543,169	MUONA ET AL.	
Examiner	Art Unit	
GLORIA R. WEEKS	3721	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period fo	or Reply	,				
WHIC - Exter after - If NO - Failu Any	CHEVER IS LONGER, FROM THE MAILING DATE insions of time may be available under the provisions of 37 CFR 1.136(a).  SIX (6) MONTHS from the mailing date of this communication.	In no event, however, may a reply be timely filed  bly and will expire SIX (6) MONTHS from the mailing date of this communication.  e the application to become ABANDONED (35 U.S.C. § 133).				
Status						
1)🛛	Responsive to communication(s) filed on 25 March	2010.				
2a)	This action is FINAL. 2b)⊠ This acti	on is non-final.				
3)	Since this application is in condition for allowance	except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)🖂	Claim(s) 1-10 and 26 is/are pending in the applicat	ion.				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	Claim(s) is/are allowed.					
	Claim(s) 1-10 and 26 is/are rejected.					
7)	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/or ele	ction requirement.				
Applicati	ion Papers					
9)	The specification is objected to by the Examiner.					
10)	The drawing(s) filed on is/are: a) accepte	d or b) objected to by the Examiner.				
	Applicant may not request that any objection to the draw	ing(s) be held in abeyance. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correction is	s required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11)	The oath or declaration is objected to by the Exami	ner. Note the attached Office Action or form PTO-152.				
Priority (	under 35 U.S.C. § 119					
12)	Acknowledgment is made of a claim for foreign prio	rity under 35 U.S.C. § 119(a)-(d) or (f).				
a)	☐ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority documents ha	ve been received.				
	2. Certified copies of the priority documents ha	ve been received in Application No				
	3. Copies of the certified copies of the priority of	locuments have been received in this National Stage				
	application from the International Bureau (Po	CT Rule 17.2(a)).				
* 9	See the attached detailed Office action for a list of the	e certified copies not received.				
Attachmen	* *	C				
1) Notic	ce of References Cited (PTO-892)	4) Interview Summary (PTO-413)				

 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information-Disclosure Statement(s) (PTO/SU/08) Paper No(s)/Mail Date \_\_\_\_\_

5) Notice of Informal Patent Application 6) Other: \_\_\_\_\_.

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#### DETAILED ACTION

This action is in response to the remarks received on August 20, 2009.

## Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-10 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujikawa (USPN 4,356,871) in view of Dantigraber (USPN 4,132,506).

In reference to claims 1-10 and 26, Fujikawa discloses a hydraulic system comprising: a rotation circuit (drives drilling rod), a percussion circuit (drives striker), and a feed device circuit (drives feed actuator); a separate pump 1, 4, 10 for each respective circuit, wherein the feed device circuit pump is a variable displacement hydraulic pump whose output is thereby adjustable, subsequently adjusting the power of the feed device circuit; a rotation motor actuator 9, a percussion motor actuator D and a feed motor actuator 15 connected to the respective circuits; distinct pressure fluid tanks 49. Although Fujikawa discloses a separate hydraulic circuit powered by a variable displacement hydraulic pump, Fujikawa does not disclose specifically how the output of the hydraulic pump is monitored.

Schively, Jr. teaches a hydraulic system comprising: multiple hydraulic circuits separately controlled by respective pumps 104, 106; and a control unit 100 that monitors and adjusts the pumps 104, 106, respectively, in response to sensors 70, 110, 112, 114 (column 4 line

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25- column 5 line 40). It would have been obvious to one having ordinary skill in the art at the time of the invention to modify the hydraulic circuit system of Fujikawa to include the control unit of Schively, Jr, since Schively, Jr, suggests that such a modification prevents overpowering of the respective circuits and automatic control of the respective circuits.

### Response to Arguments

4. Applicant's arguments, see page 8, filed March 25, 2010, with respect to the rejection(s) of claim(s) 1-10 and 26 under 35 USC 102(b) in view of Morrison have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Fujikawa (USPN 4,356,871) in view of Dantigraber (USPN 4,132,506).

#### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Refer to attachment for notice of references cited and recommended for consideration based on their disclosure of limitations related to the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GLORIA R. WEEKS whose telephone number is (571)272-4473. The examiner can normally be reached on M-Th 8am-6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi I. Rada can be reached on (571) 272-4467. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Other helpful telephone numbers are listed for applicant's benefit:

- Allowed Files & Publication (888) 786-0101
- Assignment Branch (800) 972-6382
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- Fee Questions (571) 272-6400
- Inventor Assistance Center (800) PTO-9199
- Petitions/special Programs (571) 272-3282
- Information Help line 1-800-786-9199

/Gloria R. Weeks/ Examiner, Art Unit 3721

/Rinaldi I Rada/ Supervisory Patent Examiner, Art Unit 3721